

Certificate of Need Application

Acquire PET/CT

Project #5087 HS

Mercy Hospital Joplin
Joplin, MO

August 2014



Certificate of Need Program
NEW OR ADDITIONAL EQUIPMENT APPLICATION
Applicant's Completeness Checklist and Table of Contents

Project Name: Mercy Hospital Joplin

Project No: 5087 HS

Project Description: Acquire PET/CT

Done Page N/A Description

Divider I. Application Summary:

- ☒ 6 ☐ 1. Applicant Identification and Certification (Form MO 580-1861).
☒ 7 ☐ 2. Representative Registration (Form MO 580-1869).
☒ 8 ☐ 3. Proposed Project Budget (Form MO 580-1863) and detail sheet with documentation of costs.

Divider II. Proposal Description:

- ☒ 10 ☐ 1. Provide a complete detailed project description and include equipment bid quotes.
☒ 11 ☐ 2. Provide a legible city or county map showing the exact location of the project.
☒ 11 ☐ 3. Define the community to be served.
☒ 12 ☐ 4. Provide 2015 population projections for the proposed geographic service area.
☒ 12 ☐ 5. Provide other statistics to document the size and validity of any user-defined geographic service area.
☒ 13 ☐ 6. Identify specific community problems or unmet needs the proposal would address.
☒ 13 ☐ 7. Provide historical utilization for each of the past three years and utilization projections through the first three full years of operation of the new equipment.
☒ 13 ☐ 8. Provide the methods and assumptions used to project utilization.
☒ 14 ☐ 9. Document that consumer needs and preferences have been included in planning this project and describe how consumers had an opportunity to provide input.
☒ 40 ☐ 10. Provide copies of any petitions, letters of support or opposition received.

Divider III. Community Need Criteria and Standards:

- ☒ 47 ☐ 1. For new units address the need formula for the proposed geographic service area.
☒ 47 ☐ 2. For new units, address the minimum annual utilization standard for the proposed geographic service area.
☒ 47 ☐ 3. For any new unit where specific need and utilization standards are not listed, provide the methodology for determining need.
☐ ☒ 4. For additional units, document compliance with the optimal utilization standard, and if not achieved, provide documentation to justify the additional unit.
☐ ☒ 5. For evolving technology address the following:
☐ ☒ - Medical effects as described and documented in published scientific literature;
☐ ☒ - The degree to which the objectives of the technology have been met in practice;
☐ ☒ - Any side effects, contraindications or environmental exposures;
☐ ☒ - The relationships, if any, to existing preventive, diagnostic, therapeutic or management technologies and the effects on the existing technologies;
☐ ☒ - Food and Drug Administration approval;
☐ ☒ - The need methodology used by this proposal in order to assess efficacy and cost impact of the proposal; and
☐ ☒ - The degree of partnership, if any, with other institutions for joint use and financing.

Divider IV. Financial Feasibility Review Criteria and Standards:

- ☒ 50 ☐ 1. Document that sufficient financing is available by providing a letter from a financial institution or an auditor's statement indicating that sufficient funds are available.
☒ 50 ☐ 2. Provide Service-Specific Revenues and Expenses (Form MO 580-1865) projected through three full years beyond project completion.
☒ 50 ☐ 3. Document how patient charges were derived.
☒ 50 ☐ 4. Document responsiveness to the needs of the medically indigent.

Divider I

Application Summary

DIVIDER I – Application Summary

1. Application Identification and Certification (Form MO 580-1861).

The Application Identification and Certification form is included in Divider I – Attachments.

2. Representative Registration (Form MO 580-1869).

Representative Registration form for Donald Kalicak is included in Divider I – Attachments.

3. Proposed Project Budget (Form MO 580-1863) and detail sheet.

The Capital Budget Form is included in Divider I – Attachments.

The proposed project budget includes:

▪ GE Discovery PET/CT 710	\$1,993,803
▪ Shielding	<u>71,448</u>
Total Project Cost	\$2,065,251

Attachments

Divider I Application Summary



Certificate of Need Program

APPLICANT IDENTIFICATION AND CERTIFICATION

The information provided must match the **Letter of Intent** for this project, without exception.

1. Project Location (Attach additional pages as necessary to identify multiple project sites.)

Title of Proposed Project Mercy Hospital Joplin - Acquire PET/CT	Project Number 5087 HS
Project Address (Street/City/State/Zip Code) 100 Mercy Way; Joplin, MO 64804	County Newton

2. Applicant Identification (Information must agree with previously submitted Letter of Intent.)

List All Owner(s): <small>(List corporate entity.)</small>	Address (Street/City/State/Zip Code)	Telephone Number
Mercy Health Southwest Missouri/Kansas Communities	2817 St. John's Blvd; Joplin, MO 64804	417-625-2486

List All Operator(s): <small>(List entity to be licensed or certified.)</small>	Address (Street/City/State/Zip Code)	Telephone Number
Mercy Hospital Joplin	2817 St. John's Blvd; Joplin, MO 64804	417-781-2727

3. Ownership (Check applicable category.)

- | | | | |
|---|--------------------------------------|---------------------------------|--------------------------------------|
| <input checked="" type="checkbox"/> Nonprofit Corporation | <input type="checkbox"/> Individual | <input type="checkbox"/> City | <input type="checkbox"/> District |
| <input type="checkbox"/> Partnership | <input type="checkbox"/> Corporation | <input type="checkbox"/> County | <input type="checkbox"/> Other _____ |

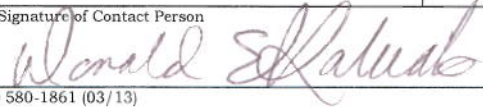
4. Certification

In submitting this project application, the applicant understands that:

- (A) The review will be made as to the community need for the proposed beds or equipment in this application;
- (B) In determining community need, the Missouri Health Facilities Review Committee (Committee) will consider all similar beds or equipment within the service area;
- (C) The issuance of a Certificate of Need (CON) by the Committee depends on conformance with its Rules and CON statute;
- (D) A CON shall be subject to forfeiture for failure to incur an expenditure on any approved project six (6) months after the date of issuance, unless obligated or extended by the Committee for an additional six (6) months;
- (E) Notification will be provided to the CON Program staff if and when the project is abandoned; and
- (F) A CON, if issued, may not be transferred, relocated, or modified except with the consent of the Committee.

We certify the information and date in this application as accurate to the best of our knowledge and belief by our representative's signature below:

5. Authorized Contact Person (Attach a Contact Person Correction Form if different from the Letter of Intent.)


Name of Contact Person Donald E. Kalicak	Title Vice President, Regional Development
Telephone Number 636-614-3271	Fax Number 636-614-3275
E-mail Address don.kalicak@mercy.net	
Signature of Contact Person 	Date of Signature 8-21-14



Certificate of Need Program

REPRESENTATIVE REGISTRATION

(A registration form must be completed for **each** project presented.)

Project Name Mercy Hospital Joplin - Acquire PET/CT		Number 5087 HS
(Please type or print legibly.)		
Name of Representative Donald E. Kalicak		Title Vice President, Regional Development
Firm/Corporation/Association of Representative (may be different from below, e.g., law firm, consultant, other) Mercy		Telephone Number 636-614-3271
Address (Street/City/State/Zip Code) 300 Winding Woods Dr; Suite 210; O'Fallon, MO 63366		
Who's interests are being represented? (If more than one, submit a separate Representative Registration Form for each.)		
Name of Individual/Agency/Corporation/Organization being Represented Mercy Health & Mercy Hospital Joplin		Telephone Number 417-625-2486
Address (Street/City/State/Zip Code) 2817 St. John's Blvd; Joplin, MO 64804		
<p>Check one. Do you:</p> <p><input checked="" type="checkbox"/> Support</p> <p><input type="checkbox"/> Oppose</p> <p><input type="checkbox"/> Neutral</p> <p>Other Information:</p> <p>_____</p> <p>_____</p>		<p>Relationship to Project:</p> <p><input type="checkbox"/> None</p> <p><input checked="" type="checkbox"/> Employee</p> <p><input type="checkbox"/> Legal Counsel</p> <p><input type="checkbox"/> Consultant</p> <p><input type="checkbox"/> Lobbyist</p> <p><input type="checkbox"/> Other (explain):</p> <p>_____</p> <p>_____</p>
<p>I attest that to the best of my belief and knowledge the testimony and information presented by me is truthful, represents factual information, and is in compliance with §197.326.1 RSMo which says: <i>Any person who is paid either as part of his normal employment or as a lobbyist to support or oppose any project before the health facilities review committee shall register as a lobbyist pursuant to chapter 105 RSMo, and shall also register with the staff of the health facilities review committee for every project in which such person has an interest and indicate whether such person supports or opposes the named project. The registration shall also include the names and addresses of any person, firm, corporation or association that the person registering represents in relation to the named project. Any person violating the provisions of this subsection shall be subject to the penalties specified in §105.478, RSMo.</i></p>		
Original Signature 		Date 8.21.14



Certificate of Need Program

PROPOSED PROJECT BUDGET

Description

Dollars

COSTS:*

(Fill in every line, even if the amount is "\$0".)

1. New Construction Costs ***	
2. Renovation Costs ***	
3. Subtotal Construction Costs (#1 plus #2)	\$0
4. Architectural/Engineering Fees	
5. Other Equipment (not in construction contract)	
6. Major Medical Equipment	\$1,993,803
7. Land Acquisition Costs ***	
8. Consultants' Fees/Legal Fees ***	
9. Interest During Construction ***	
10. Other Costs ****	\$71,448
11. Subtotal Non-Construction Costs (sum of #4 through #10)	\$2,065,251
12. Total Project Development Costs (#3 plus #11)	\$2,065,251 **

FINANCING:

13. Unrestricted Funds	\$2,065,251
14. Bonds	
15. Loans	
16. Other Methods (specify: _____)	
17. Total Project Financing (sum of #13 through #16)	\$2,065,251 **

18. New Construction Total Square Footage	
19. New Construction Costs Per Square Foot *****	
20. Renovated Space Total Square Footage	
21. Renovated Space Costs Per Square Foot *****	

* Attach additional page(s) detailing how each line item was determined, including all methods and assumptions used. Provide documentation of all major costs. For major medical equipment, refer to 19 CSR 60-50.300 (11) for inclusion of costs.

** These amounts should be the same.

*** Capitalizable items to be recognized as capital expenditures after project completion.

**** Include as Other Costs the following: other costs of financing; the value of existing lands, buildings and equipment not previously used for health care services, such as a renovated house converted to residential care, determined by original cost, fair market value, or appraised value; or the fair market value of any leased equipment or building, or the cost of beds to be purchased.

***** Divide new construction costs by total new construction square footage.

***** Divide renovation costs by total renovation square footage.

Divider II

Proposal Description

DIVIDER II – Proposal Description

1. Provide a complete detailed project description and include equipment bid quotes.

Mercy Hospital Joplin is seeking approval to purchase a fixed PET/CT. The unit will be located at Mercy's new hospital campus in Joplin on I-44 at south Main Street, scheduled to open in March 2015. Mercy intends to purchase a GE Discovery PET/CT 710. The project cost of \$2,065,251 includes purchase of the unit and installation of shielding. Bid quotes for both items are provided as attachments.

This project is considered an application for a new unit per CON rules, although Mercy has offered mobile PET/CT for many years under a service agreement with DMS Imaging, Inc. Assuming this application is approved, the weekly mobile service will be terminated, effectively being replaced by the fixed unit.

Established by the Sisters of Mercy, the hospital has served the people of Joplin since 1896. After a change in sponsorship for a period of time, the hospital rejoined Mercy Health in 2009. The May 2011 tornado that destroyed Mercy Hospital Joplin has been well chronicled. Since that time, Mercy Hospital has operated in temporary facilities. With 286 beds, patient volumes in fiscal year 2013 included 29,262 emergency department visits; 6,499 hospital discharges; 422 births; and 291,863 outpatient visits.

Oncology services were particularly impacted in that radiation therapy services have not been offered since the tornado and the remaining cancer services are somewhat fragmented because they are not offered in a core location. With the opening of the new hospital facility, oncology services will be consolidated to the new campus and expanded. The new cancer center will include physician offices, a cancer information center, a breast center, imaging, an infusion center and two vaults for radiation therapy. The number of oncologic and surgical specialists will increase in the coming months. The new cancer center will improve access and convenience for patients, families and physicians. We anticipate rapid increases in patient volumes after Mercy's cancer center is reestablished and expanded.

PET/CT studies are an acknowledged clinical standard for diagnosing cancer and part of the ongoing process of radiation therapy. Mercy proposes to replace the part-time mobile unit with a fixed PET/CT to address anticipated patient volume increases in the new cancer center; to ensure patient care is timely; to provide for appropriate patient scheduling; and to ensure a coordinated care experience for patients and families.

2. Provide a legible city or county map showing the exact location of the project.



3. Define the community to be served.

Mercy Hospital Joplin defines its primary service area as 9 counties in the corners of:

- southwest Missouri: Barton, Jasper, McDonald, Newton, & Vernon counties
- southeast Kansas: Cherokee & Crawford counties
- northeast Oklahoma: Delaware & Ottawa counties

The secondary service area extends to a 50 mile radius of the new hospital site, representing all or portions of some 14 counties.

In addition to Mercy Hospital and physician clinics in Joplin, Mercy operates hospitals, primary care and specialty physician clinics in nearby Carthage and Columbus, Kansas and in the larger geographic area reaching across southern Missouri and northwest Arkansas, depicted on a map of Mercy's service area in Divider I – Attachments.

Mercy oncologists/hematologists have their primary offices in Joplin. They also have regular office hours in Carthage and Nevada.

4. Provide 2015 population projections for the proposed geographic service area.

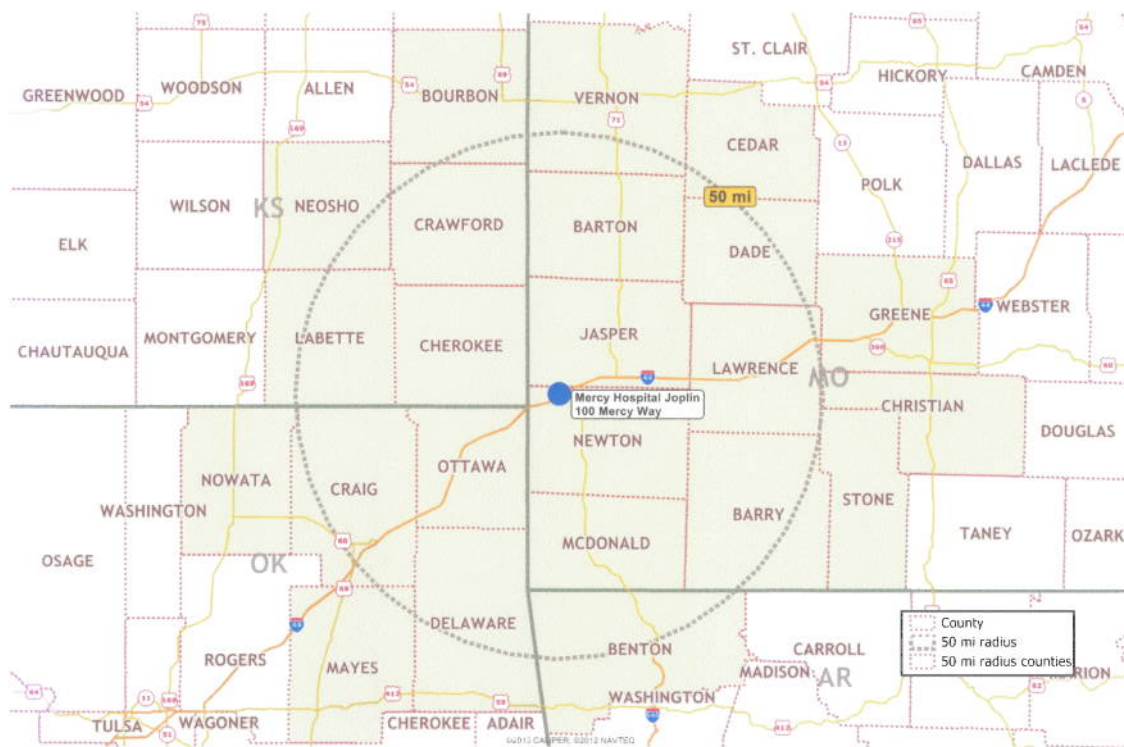
The 2015 population projection for the 15 mile radius is 164,996 based on information provided by DHSS and the methodology outlined in the CON regulations. The maps and worksheets from DHSS are included as attachments.

The applicant feels the 15 mile radius is not an appropriate definition for the geographic service area for Mercy Hospital Joplin, given its location in the population center of the region, patient drive times, and the lack of clinical resources in the larger region.

5. Provide other statistics to document the size and validity of any user-defined geographic service area.

As described above, actual patient origin data indicates the primary service area for Mercy Hospital Joplin is a 9 county region in 3 states. The 2014 population of this 9 county region is 360,848. The primary service area is defined as the region representing 85% of the Hospital's discharges.

The secondary service area (defined as the geographic area bringing the total to 90% of discharges) extends to a 50 mile radius from the new site. The estimated 2014 population of the primary and secondary service areas is 460,178.



6. Identify specific community problems or unmet needs the proposal would address.

With the opening of Mercy Hospital Joplin & Physician Medical Offices at the new campus in March 2015, Mercy will re-establish a comprehensive cancer center offering hematology/oncologists' offices, offices for other cancer specialists, a cancer information center, a breast center, imaging, an infusion center and two vaults for radiation therapy.

Since the 2011 tornado, Mercy has not been able to provide radiation therapy. Patients are required to travel to other centers for radiation treatments. Other elements of cancer care are not provided in a single location at this time. The new campus will have all the elements of cancer care in a single location, greatly improving access and convenience for patients and families. A comprehensive oncology service will enrich patient care.

PET is considered the gold standard for cancer staging. It has become the standard for diagnosis and treatment monitoring (Sg2). A comprehensive approach to providing cancer care must include timely access to PET/CT studies. This application is part of the larger picture of Mercy's rebuilding comprehensive cancer services for Mercy patients.

7. Provide historical utilization for each of the past three years and utilization projections through the first three full years of operation of the new equipment.

Although Mercy has offered mobile PET/CT for many years under a service agreement with DMS Imaging, Inc, this project is considered an application for a new unit per CON rules. Projections of utilization for future years are based on Mercy's full fiscal years that end June 30 each year:

<i>Projected Utilization</i>		
Fiscal Year 2015:	500	procedures
Fiscal Year 2016:	650	"
Fiscal Year 2017:	813	"
Fiscal Year 2018:	1,016	"

8. Provide the methods and assumptions used to project utilization.

Mercy Hospital Joplin provided 325 PET/CT procedures in the year that ended June 30, 2014. This volume was achieved with a part-time mobile service and without radiation therapy services as part of the mix of service offerings. PET/CT is an extremely important tool for monitoring and modifying radiation therapy treatment plans. Studies available from consulting groups such as Sg2, GE Healthcare, and IMV Medical Information suggest there will be continued expansion of clinical applications using PET/CT for cancer, cardiovascular, neuro and other clinical conditions.

Specific factors considered in projecting utilization:

- Radiation therapy will be reestablished in a comprehensive cancer center, in one location.
- The fixed PET/CT will be available daily, simplifying patient scheduling.
- The number of physicians providing care for cancer patients will increase demand for diagnostic studies.
- While some 90% of PET/CT studies are related to cancer diagnoses, Mercy anticipates increased patient volumes in cardiovascular and neuroscience services, where PET/CT studies are also beneficial.
- The new hospital campus will be easily accessible off I-44 in Joplin.

9. Document that consumer needs and preferences have been include in planning this project and describe how consumers had an opportunity to provide input.

The following notice was placed in the Joplin Globe:

Mercy Hospital Joplin is seeking required approval from the Missouri Health Facilities Review Committee to purchase a new PET/CT unit. This medical equipment will be used primarily for the diagnosis and treatment of patients with cancer. The unit will be located at the new hospital campus, expected to open in March 2015. Interested parties should address comments to Donald Kalicak, Mercy Vice President, at don.kalicak@mercy.net

10. Provide copies of any petitions, letters of support of opposition received.

Six letters of support are included in Divider IV – Attachments.

Additional correspondence received in support or in opposition to this project will be forwarded to the CON Program upon receipt.

Attachments

Divider II Proposal Description

Quotation Number: P6-C140936 V 14

Mercy Hospital Joplin
2817 Saint Johns Blvd
Joplin MO 64804-1563

Attn: Nora Cannon
2727 Mc Clelland Blvd
Joplin MO 64804

Date: 07-29-2013

This Agreement (as defined below) is by and between the Customer and the GE Healthcare business ("GE Healthcare"), each as identified herein. GE Healthcare agrees to provide and Customer agrees to pay for the Products listed in this GE Healthcare Quotation ("Quotation"). "Agreement" is defined as this Quotation and the terms and conditions set forth in either (i) the Governing Agreement identified below or (ii) if no Governing Agreement is identified, the following documents:

1) This Quotation that identifies the Product offerings purchased or licensed by Customer;

2) The following documents, as applicable, if attached to this Quotation: (i) GE Healthcare Warranty(ies); (ii) GE Healthcare Additional Terms and Conditions; (iii) GE Healthcare Product Terms and Conditions; and (iv) GE Healthcare General Terms and Conditions.

In the event of conflict among the foregoing items, the order of precedence is as listed above.

This Quotation is subject to withdrawal by GE Healthcare at any time before acceptance. Customer accepts by signing and returning this Quotation or by otherwise providing evidence of acceptance satisfactory to GE Healthcare. Upon acceptance, this Quotation and the related terms and conditions listed above (or the Governing Agreement, if any) shall constitute the complete and final agreement of the parties relating to the Products identified in this Quotation. The parties agree that they have not relied on any oral or written terms, conditions, representations or warranties outside those expressly stated or incorporated by reference in this Agreement in making their decisions to enter into this Agreement. No agreement or understanding, oral or written, in any way purporting to modify this Agreement, whether contained in Customer's purchase order or shipping release forms, or elsewhere, shall be binding unless hereafter agreed to in writing by authorized representatives of both parties. Each party objects to any terms inconsistent with this Agreement proposed by either party unless agreed to in writing and signed by authorized representatives of both parties, and neither the subsequent lack of objection to any such terms, nor the delivery of the Products, shall constitute an agreement by either party to any such terms.

By signing below, each party certifies that it has not made any handwritten modifications. Manual changes or mark-ups on this Agreement (except signatures in the signature blocks and an indication in the form of payment section below) will be void.

- | | |
|------------------------------|---------------------------------|
| • Terms of Delivery: | FOB Destination |
| • Quotation Expiration Date: | 08-30-2013 |
| • Billing Terms: | 80% delivery / 20% Installation |
| • Payment Terms: | UPON RECEIPT |
| • Governing Agreement: | None |

Each party has caused this agreement to be signed by an authorized representative on the date set forth below. Please submit purchase orders to GE Healthcare

3200 N. Grandview Blvd., Mail Code WT-897, Waukesha, WI 53188

GE HEALTHCARE

Denise Chapman
Product Sales Specialist

Date

CUSTOMER

Authorized Customer

Date

Print Name and Title

PO #

Desired Equipment First Use Date

GE Healthcare will use reasonable efforts to meet Customer's desired equipment first use date. The actual delivery date will be mutually agreed upon by the parties.

INDICATE FORM OF PAYMENT:

(If there is potential to finance with a lease transaction, GE HFS or otherwise, select lease.)

___ Cash * ___ Lease ___ HFS Loan

If financing please provide name of finance company below*:

*Selecting Cash or not identifying GE HFS as the finance company declines option for GE HFS financing.

Qty	Catalog No.	Description
1		Discovery PET/CT 710
1	S9216RB	Discovery PET/CT 710
		DISC PETCT 710 16SL STD
		Discovery PETCT 710 Standard 16 slice
		Discovery PET/CT 710 is the next evolution whole body PET/CT system, bringing clinically relevant innovations in an evolutionary platform designed to open doors to new and advanced procedure possibilities in non invasive diagnostic imaging.
		Built on a Discovery PET/CT platform, the Discovery PET/CT 710 is an important evolution as many of the subsystems have been reimaged to bring advances in managing patient breathing and cardiac movement, reconstruction power, patient positioning, research tools and workflow efficiency, while maintaining high slice sensitivity.
		An integrated gantry combined with the PET/CT operator console enables fully integrated PET/CT scanning, processing, review and data management.
		The GE Discovery PET/CT 710 consists of
		o One integrated gantry containing a BrightSpeed Elite CT with Performix Ultra Metal Ceramic X-Ray tube and 16-slice detector, 24 PET detector rings of lutetium based crystals (LBS), high-speed electronics and PET image reconstruction system.
		o One patient imaging table, one head holder, patient security straps and comfort accessories.
		Prospective Reconstruction
		o VUE Point HD utilizes a fully 3D iterative reconstruction technique with all corrections within the loop, enhanced resolution with detector geometry modeling, model-based 3D scatter correction inside and scatter estimation outside the field of view, exclusive randoms corrections based on singles and dead-time correction with pile-up estimates providing high image quality and patient throughput.
		o WideView - PET reconstructed transaxial Field of View coverage of 70cm diameter with CT based PET attenuation correction and CT wide-FOV Display.
		Motion Management Motion Management tools enable the reduction of motion artifacts caused by patient breathing and cardiac movement by acquiring motion information during the scan and incorporating it into motion related PET/CT applications.
		o 4Dx with VIP replay- Provides integrated list mode processing for generating a variety of scan types (static, dynamic, gated) from a single acquisition
		Power Management
		o Energy Save Mode - Place the console, PET computers, and gantry into a sleep mode such that

Qty	Catalog No.	Description
		<p>non-essential electronics minimize energy usage and heat generation resulting in electricity savings for the facility.</p> <p>Calibration and Daily Quality Control</p> <p>Daily Quality Assurance at the start of the scanning day is quick and efficient. A single button push launches the DQA procedure, which takes less than 10 minutes and provides you with a daily report. All of this with no additional radiation exposure to your technologists thanks to our automated source loader.</p> <p>Automated PET calibration and QC with self shielded robotized calibration source handling system provides fast start up and lower dose to staff with documented and reproducible daily QC.</p> <p>PET Reconstruction</p> <p>Powerful, expandable GE PET reconstruction technology makes the latest PET/CT workflows clinically relevant by handling massive PET/CT data sets with ease. Its dual Quad-Core processors routinely reconstruct PET images for clinically relevant data reconstruction and display images while your patient is still on the table. Reconstruct fully 3D IR and motion corrected gated studies at incredible speeds.</p> <p>CT Features Your Discovery PET/CT 710 can be operated as a standalone 16-slice CT scanner. With its exceptional power, remarkable speed, high resolution/low-dose imaging, and full diagnostic capabilities, it can help increase your patient imaging volumes and revenues.</p> <p>The Discovery PET/CT 710 includes the GE BrightSpeed Elite 16 slice CT that can perform a wide variety of clinical applications not requiring gantry tilt and has the following features</p> <p>Technology</p> <ul style="list-style-type: none"> o 0.625mm FWHM at Helical: Helical reconstruction technologies, crossbeam correction, conjugate ray interpolation and hyper plane helical reconstruction with alpha smoothing method allows Scan Thin 0.625mm, and Recon Thin 0.625mm. o Performix tube provides high power for multi-organ acquisition, sub-millimeter slice thicknesses and sub-second scanning. SmartTube technology adapts to clinical needs to improve longevity and reliability. o Short gantry geometry offering high X-ray efficiency, in conjunction with hyper generator and the Performix Ultra X-ray tube delivers up to 440mA and seamless throughput o Volara Digital DAS, Data Acquisition System, with an increased sampling rate of up to 20% and noise reduction up to 33%, results in outstanding image quality in signal-starved areas (shoulder, hip, large patient, metal). o With an optimized beam, the Discovery PETCT 710 with BrightSpeed Elite helps reduce the

Qty	Catalog No.	Description
		<p>dose even without post-patient collimation. With post-patient collimation, one half of the beam never reaches the detector, resulting in wasted dose. In GE's BrightSpeed, the beam narrows before entering the patient, reducing the dose and optimizing the beam for image generation.</p> <p>Dose Management</p> <ul style="list-style-type: none"> o 3D mA modulation acquisitions may reduce dose compared with fixed mA acquisitions. mA modulation is designed to optimize the dose for the user prescribed noise index. Its effect on dose depends on the patient body habitus, and prescribed noise setting. o ECG Dose Modulation: prospective ECG dose modulation automatically adjusts the mA to minimize dose during systolic phases of the cardiac cycle. o Winner of a National Heroes Award from the Emergency Medical Services for Children, provides pediatric scan protocols based on the Broselow-Luten TM Pediatric System. This Color Coding system is incorporated into the protocol selection on the operator's console and is designed to facilitate pediatric emergency care and reduce medical errors o Neuro 3D Filter provides the user the capability to filter head acquisition data using specially designed and optimized 3D filter. o Dose report: In conjunction with prospective display of CTDIvol, DLP and dose efficiency, dose report helps clinicians reach ALARA dose, and keep track of it. Report is available in both DICOM secondary capture and structured report format. <p>Dose Check: Provides the user tools to guide dose given in clinical practice and is based on the standard XR-25-2010 published by The Association of Electrical and Medical Imaging Equipment Manufacturers (NEMA). Dose Check provides the following: Checking against a Notification Value if the estimated dose for the scan is above your site typical dose value, checking against an Alert Value where the user needs specific authority to continue the scan at the current estimated dose without changing the scan parameters, defining Alert Values for Adult and Pediatric with age threshold, audit logging and review, protocol change control</p> <p>PET/CT Operators Console</p> <ul style="list-style-type: none"> o Fully integrated PET and CT user interface o Direct Multi Planar Reformat delivers automated axial, sagittal, and coronal reconstruction with excellent image quality for PET and CT images of the patient data being acquired. Direct3D TM automatically builds 3D models during axial image reconstruction. o Volume Viewer: Environment for 3D processing of any CT, MR, 3D X-ray, and PET/CT dataset. It provides exceptional tools for analysis, segmentation, measurements, annotation, filming, and exporting of clinically relevant images. Volume Viewer seamlessly combines anatomical image review with PET quantitative measurement capabilities such as SUV. o Freedom Workspace*: Innovative hardware and software creates a convenient, ergonomic

Qty	Catalog No.	Description
		<p>working environment. It offers sit/stand and horizontal/vertical monitor flexibility. It can also help reduce noise and heat with remote location of the console.</p> <ul style="list-style-type: none"> o Two 19 -inch diagonal width high-resolution color monitors for image display, analysis, processing, and management of PET, CT, and PET/CT images. o Three button mouse with mouse pad o 16 frames per second CT reconstruction at full resolution o ImageWorks TM provides instant access to advanced image processing features such as SmartScorePro, CT Perfusion 4 Multi Organ, CT Perfusion 4 Neuro, Advanced Vessel Analysis, CardIQ Xpress Pro or Plus, AutoBone, CardEP and DentaScan <p>PET/CT Service Features</p> <p>Each system is supported by GE's InSite TM remote diagnostics, iLinQ TM, and TiP Virtual Assist.</p> <p>InSite broadband - all hardware and software required to remotely connect this PET/CT system to GE's InSite On-Line Center via secure VPN high-speed Internet connections. Enables access to services designed to reduce downtime, improve quality, enhance performance, increase productivity, and expand imaging capabilities with increased privacy and security of data transmissions.</p>
1	P5051TB	<p>PET/CT Long Length Cables</p> <p>Long length cable set for Discovery PET/CT 600, 610, 690, and 710</p>
1	P5051LF	<p>RAD RX</p> <p>RadRx</p> <p>Automatically combine various CT techniques within the same acquisition session, and use them for PET attenuation correction.</p> <p>Average Cine CT reduces the impact of attenuation correction mismatches. It provides better quantitative accuracy resulting in greater than 50% difference in SUV.</p>
1	P5051TR	<p>2M Scan Range</p> <p>2 meter scan option</p> <p>The system can perform a full 2 meter acquisition of both CT and PET data, through the use of a cradle extender and specific acquisition protocols.</p>
1	E4502F	<p>14 KVA 3-Phase Partial UPS for VCT</p> <p>3 Phase 14 KVA Partial UPS for Lightspeed VCT, Discovery ST - HP and Lightspeed Pro32.</p> <p>The 14KVA Partial UPS has been specifically designed to coordinate with GE Healthcare CT &</p>

Qty	Catalog No.	Description
		<p>PET/CT scanners. In the event of a power outage a partial system UPS provides continuous backup power to the scanner host and control computers, thus assuring no loss of usable scan data. In addition, critical circuits in the gantry and table remain powered which facilitate the safe removal of the patient from the scanner. If power is restored within the battery hold-up time, the operator can continue scanner operations without the need to reboot the system. When longer power outages are anticipated, the UPS provides time for the operators to safely remove the patient and complete an orderly shutdown of the system software.</p> <p>FEATURES/BENEFITS</p> <ul style="list-style-type: none"> • True double-conversion, online technology provides reliable operation & uninterrupted glitch free power • Automatic voltage and frequency selection eases startup, i.e., 50 or 60 Hz compatible • Integral Manual Bypass switch facilitates continued scanner operation while UPS is being serviced • Single input connection utilized for both UPS input and static switch • Maintains system electronics and allows critical scanner operations to continue for > 10 minutes (typical) after loss of power • Protects electronics from under voltage, brownouts, line sags, over voltage and transients • Advanced Battery Management (ABM) software monitors / indicates battery health and improves battery service life <p>SPECIFICATIONS</p> <ul style="list-style-type: none"> • Dimensions (H x W x D): 49" x 12" x 32" • Weight: 620 lbs. • Rating: 14.4 kVA • Input Voltage Range: Three-Phase; 102-132V / ph • Input Frequency Range: 45-65 Hz • Output Frequency: 50 or 60 Hz, auto-sensing <p>COMPATIBILITY</p> <ul style="list-style-type: none"> • CT LightSpeed Pro 32, Lightspeed VCT, CT 750HD, PET Discovery ST & ST-HP, PET Discovery VCT, PET Discovery 600/690 <p>NOTES:</p> <ul style="list-style-type: none"> • Customer is responsible for rigging and arranging for installation with a certified electrician • ITEM IS NON-RETURNABLE AND NON-REFUNDABLE
1	E4502AB	90 Amp Main Disconnect Panel for CT

Qty	Catalog No.	Description
		<p>90 Amp Main Disconnect Panel for CT</p> <p>This 90 amp main disconnect panel for GEHC CT systems provides emergency shut down, undervoltage protection, overcurrent protection, local disconnect for the imaging system. It also reduces installation time and cost by providing a single-point power connection eliminating the need to mount and wire a number of individual components. The standardized design and testing assures high product quality and system reliability, and it is UL and cUL listed for compliance with National Electric Code. Panel can be surface or semi-flush mounted and includes one remote emergency off push button. Customer is responsible for rigging and arranging for installation by a licensed electrician. ITEM IS NON-RETURNABLE and NON-REFUNDABLE Warranty Code: Y</p>
1	E8690AE	<p>Discovery PET/CT 690 Pin Source</p> <p>Discovery PET/CT 690/710 Pin Source</p> <p>The PET/CT 690/710 Pin Source is a GE-68 line source used to provide necessary calibration of the PET gantry. The line source is also used as a reference standard to perform automated daily quality assurance.</p>
1	E8500NB	<p>Patient Arm Support System for Nuclear, PET/CT, MRI</p> <p>Patient Arm Support for NM, PET/CT, MR</p> <p>Padded Arm Rest combines total arm support and passive restraint, increasing patient comfort during extended procedures. Designed to accommodate virtually all patients. Compatible with most Nuclear Imaging systems and can also be used in MRI, CT and PET applications. Constructed with a comfortable, full support polyfoam with a seamless coated finish. Warranty Code: H</p>
1	E8500NC	<p>Patient Leg Rest for Nuclear, PET/CT, MRI</p> <p>Patient Leg Rest for Nuclear, PET/CT, MRI</p> <p>Contoured Leg Rest prevents low back stress and pain that occurs during supine imaging and treatment, measures 7 in. H x 17 in. D x 13 in. W. Designed to accommodate virtually all patients. Compatible with most Nuclear Imaging systems and can also be used in MRI, CT and PET applications. Constructed with a comfortable, full support polyfoam with a seamless coated finish. Warranty Code: H</p>
1	E8004FC	<p>Wide Security Straps for HiSpeed Advantage 9800</p> <p>Wide Security Straps - Set of 2</p> <p>FEATURES/BENEFITS</p> <ul style="list-style-type: none"> Improve productivity and enhance patient comfort with these canvas and Velcroy straps

Qty	Catalog No.	Description
		<ul style="list-style-type: none"> • Help secure patients and bed linen within the field of view during scanning • Use to secure abdominal area <p>SPECIFICATIONS</p> <ul style="list-style-type: none"> • Set of 2 straps • Strap 1 measures: 32" W x 32" L • Strap 2 measures: 14" W x 22" L <p>NOTES:</p> <ul style="list-style-type: none"> • Narrow straps are available (E8004FD)
1	E8008P	<p>VQC Phantom for Volumetric Registration</p> <p>VQC Phantom</p> <p>Quality Control Phantom for Volumetric Registration.</p>
1	E8000HF	<p>2 TB USB EXT HARD DRIVE</p> <p>2 TB USB External Hard Drive</p> <p>Provides high capacity storage and automatic, continuous encryption for all your files.</p> <p>Provides a user-accessible means of transferring list data to alternative storage, to permit keeping the data while freeing scanner resources for additional patients.</p> <p>The USB external hard drive will provide storage of 2 terabyte and interface with GE Healthcare Global Operator Consoles via USB 3.0 interface that provides up to 10 times faster data transfer rates compared to USB 2.0 interfaces.</p> <p>USB 3.0 is backward compatible with USB 2.0</p>
1	W0103PT	<p>TiP Applications Discovery PET/CT Succeed Advance Training Program</p> <p>TiP Applications Discovery PET/CT Succeed Advance Training Program</p> <p>TiP Applications Discovery Succeed Advance includes:</p> <ul style="list-style-type: none"> • 19 onsite days covered over 6 site visits • 10 hrs TVA • 1 TiP Headquarter Class <p>Onsite training and TVA are delivered Monday through Friday between 8AM and 5PM. T&L expenses are included. Headquarters classes are delivered in the Milwaukee area and include travel and modest living expenses.</p> <p>This training program must be scheduled and completed within 24 months after the date of</p>

Quotation Number: P6-C140936 V 14

Qty	Catalog No.	Description
		product delivery.

Quote Summary:

Total List Price: **\$3,635,282.00**

Total Discount: (45.15%)

Total Quote Net Selling Price **\$1,993,802.54**

(Quoted prices do not reflect state and local taxes if applicable. Total Net Selling Price Includes Trade In allowance, if applicable.)

Quotation Number: P6-C140936 V 14

Options

(These items are not included in the total quotation amount)

Qty	Catalog No.	Description	List Price	Discount	Ext Sell Price
1	S5052ES	Discovery PET/CT 710 Q.STATIC PROMOTION Available on Discovery PETCT 710 Available on Discovery PETCT 610 Part of Q.Suite - a suite of innovative new quantitative imaging tools from GE Healthcare designed to help clinicians generate more consistent PET measurements, and therefore assess treatment response more accurately than ever before. Q.Static Represents a starting point for adding motion correction techniques to your facility and the opportunity to build towards a full 4D phase-matched workflow. Without disrupting your standard static whole-body workflow, were designing Q.Static to automatically isolate data when organs are in a low motion state, thereby correcting for motion across the entire chest or torso. The result is a single image series with reduced blurring from organ motion, and therefore more consistent quantitation compared to a static image.	\$5,000.00	20.00%	\$4,000.00
1	S51821MV	MOTIONVUE BUNDLE PROMO Motion VUE Base Single Floating License Motion VUE is an advanced application that allows review and analysis of gated PET and CT images, acquired on a PET/CT scanner equipped with a respiratory gating system, and following respiratory motion correction. It provides the ability to display fused gated PET and CT images, offers a multi-phase cine review tool and fully customizable layouts, and enables	\$5,000.00	20.00%	\$4,000.00

Quotation Number: P6-C140936 V 14

Qty	Catalog No.	Description	List Price	Discount	Ext Sell Price
		quantification of uptake activity. Furthermore, it assists in understanding of the lesion displacement in both PET and CT gated acquisitions.			
1	P5051SK	SHARPIR Advanced system modeling in PET reconstruction that enhances visual contrast and resolution in both whole-body and brain images by incorporating information about the PET detector's point-spread-function response into the 3D iterative reconstruction.	\$109,091.00	20.00%	\$87,272.80
1	P5054NA	VUE Point FX Next generation in time-of-flight image reconstruction, VUE Point FX leverages the innovative VUE Point HD iterative process by adding timing information to each step within the iterative loop and improving signal-to-noise ratio.	\$174,545.00	42.71%	\$99,996.83
1	P5051ET	PET Q.FREEZE CONSOLE OPT Part of the new Q.Suite, Q.Freeze combines the quantitative benefits of 4D phase-matched PET/CT imaging into a single static image that uses 100 of the counts collected in the acquisition. Combine with Q.AC to create 4D cine data for attenuation correction of PET images at low dose levels.	\$87,273.00	20.00%	\$69,818.40
1	M81531FF	AW VolumeShare 5 with Two Flat Panel Monitors and 6GB of RAM AW VolumeShare 5 with Two Flat Panel Monitors and 6GB of RAM. AW VolumeShare 5 is a multi-modality image review, comparison and post processing workstation built with simplicity and power at its core. Powerful software is optimized to take advantage of state of the art 64 bit technology and multiple cores to ensure leading edge performance.	\$115,040.00	20.00%	\$92,032.00

Quotation Number: P6-C140936 V 14

Qty	Catalog No.	Description	List Price	Discount	Ext Sell Price
		AW VolumeShare 5 features include:			
		Hardware:			
		<ul style="list-style-type: none"> • HP Z800 Workstation with Intel x5650 Six Core Xeon 2.66 GHz CPU with 8MB Shared L2 Cache / 1333 MHz Dual FSB • 6GB DDR-3 1333 ECC DIMM • 300GB SAS 15,000rpm Hard Disk for OS and Apps. • 600GB SAS 15,000rpm Hard Disks for Image Data • 2 x 19" EIZO MX191 Monitors 			
		Software:			
		<ul style="list-style-type: none"> • Fast access to information you need through optional RIS integration & priors post-fetch • Efficient workflow through dynamic load, end review and Key Image Notes features • Optional productivity package to pre-process exams and allow up to 8 simultaneous sessions • Applications usage monitor to track usage of your system • Smart layouts with Volume Viewer General review protocol that optimizes comparison and single exam layouts • Enhanced multi-modality contouring tool with support for PET SUV's • Support for external DICOM USB media and preference management tool to exchange preferences across users • Support for optional, broad suite of multi-modality advanced applications 			
1	M81531DB	Integrated Registration - Full Fusion Package Upgrade from CT/MR/PET	\$26,630.00	20.00%	\$21,304.00
		Integrated Registration - Full Fusion Package Upgrade from CT/MR/PET Integrated Registration			

Qty	Catalog No.	Description	List Price	Discount	Ext Sell Price
		<p>Integrated Registration will be delivered on AW Volume Share 5.</p> <p>Integrated Registration is designed to provide easy comparison of three dimensional (3D) anatomical images from Computed Tomography (CT), MRI (Magnetic Resonance Imaging), PET (Positron Emission Tomography), Single Photon Emission Computed Tomography (SPECT) and X-Ray Angiography (XA)*.</p> <p>It allows registration and fusion between two volumetric acquisitions, which come from either the same or from different acquisition modalities.</p> <p>Integrated Registration is available on xw8400 and higher. Current Fusion xw8400 users can easily upgrade to Integrated Registration through a software upgrade.</p> <p>Major features and enhancements are:</p> <ul style="list-style-type: none"> • Ability to combine any two of the 5 modalities together. • Automatic propagation of registration across series acquired in the same patient exam (i.e. same frame of reference) and to any series from any loaded exam that have been manually grouped together. • Full compatibility of the 3 different registration methods: automatic, manual and landmark that can be combined together to provide an optimal result. • 2D, 3D and hybrid 2D/3D Fusion capabilities. • Access to Volume Viewer** functionalities including MPR, Slab and oblique reformations, triple oblique easy definition, Volume Rendering, 3D display, distance and ROI measurements. (The ROI measurement only work on the rigid registered images, not on the non rigid registered images), layout management, segmentations, film and save. 			

Quotation Number: P6-C140936 V 14

Qty	Catalog No.	Description	List Price	Discount	Ext Sell Price
		<ul style="list-style-type: none"> • Ability to save registered data as new DICOM series or as Registered DICOM object (except from SPECT saving which is currently a limitation). • Ability to draw and save contours as RTSS DICOM objects. <p>Summary of operation:</p> <ul style="list-style-type: none"> • User loads DICOM 3 CT, MR, PET, SPECT and/or XA data into a Integrated Registration protocol. • Registration is performed based on reference and moving series selection. • User reviews the quality of the registration with visualization tools and validates results. • Optional: user defines and saves the contours of structures of interest. • Registration results are saved. <p>* For XA modality series, Integrated Registration currently supports only the 3D X Ray Angiography (i.e., 3D X-Ray Angiography images stored as CT Image Storage DICOM objects) images acquired with GE Innova equipment and reconstructed with the Innova3DXR application. * Requires Volume Viewer 5 key.</p>			
1	P50821PT	<p>PET VCAR</p> <p>PET VCAR (Volume Computer Assisted Reading) is a PET/CT software package that can be used by the clinician to assist in diagnosis, staging, treatment planning and monitoring treatment response.</p> <p>The application can be used for visualization and analytical monitoring of disease progression or response to treatment or therapy using multi-exam comparison.</p> <p>PET VCAR's workflow is designed to allow clinicians to make informed follow-up decisions in</p>	\$75,000.00	20.00%	\$60,000.00

Quotation Number: P6-C140936 V 14

Qty	Catalog No.	Description	List Price	Discount	Ext Sell Price
		<p>an efficient manner.</p> <p>Manage with Efficiency Interactive Data Analysis (IDA): Interactive tool to visualize and manage multiple lesions, multiple patient exams data over time. IDA is synchronized with the image display layouts offering quick measurement / image visual validation with customizable comments.</p> <p>Compare with Precision Rigid registration of CT data over multiple exams for reliable comparison. Automatically register and compare pre and post examinations.</p> <p>Report with Confidence Automatically segment and track lesion changes over multiple exams for a conclusive report. Advanced and flexible reporting tools with export to RTSS and *.csv.</p> <p>Requires: AW VolumeShare 5 with minimum z800 hardware configuration 2 day Advanced Applications</p>			
1	E8819KA	<p>Varian RPM Camera and Installation</p> <p>Varian RPM with install</p>	\$69,000.00	20.00%	\$55,200.00
1	E8819HB	<p>Varian RPM Mount for PET Global Table</p> <p>RPM Mount for GT For PET/CT Only</p>	\$900.00	20.00%	\$720.00
1	E6315JE	<p>DIACOR RTP Flat Tabletop for CT and PET/CT Systems - RT16, DVCT, Disc 600/690, HD750 and VCT</p> <p>DIACOR RTP Flat Tabletop for CT and PET/CT Systems- RT16, DVCT, Discovery PET/CT 600, 610, 690, 710, HD750, and VCT</p> <p>Diacor Radiation Therapy Planning Overlay For GE Healthcare Global Tables, Model 1700, 2000 and PET/CT</p> <p>The Radiation Therapy Planning Overlay, or "CT Overlay", provides a secure flat surface for CT Simulation applications, consistent with the</p>	\$15,000.00	20.00%	\$12,000.00

Quotation Number: P6-C140936 V 14

Qty	Catalog No.	Description	List Price	Discount	Ext Sell Price
		<p>treatment couch, for accurate and reproducible patient positioning.</p> <p>FEATURES/BENEFITS</p> <ul style="list-style-type: none"> o Carbon fiber construction with foam core provides durable, light-weight device with outstanding imaging properties o Varian Exact Technology and Indexing Immobilization Patient Positioning system along entire length of the overlay o Designed specifically for GE Healthcare's Global Table o Easily locks and unlocks from the CT Table, providing easy transition between therapy and diagnostic procedures <p>INCLUDED:</p> <ul style="list-style-type: none"> o Carbon Fiber CT Overlay with locking accessories o Two Varian Exact Couch Indexing Bars o One Varian Respiratory Gating Interface Plate and associated mounting hardware <p>SPECIFICATIONS:</p> <p>Weight: 30 lbs. (13.61 kg) Length: 85.25 in. (217.17 cm) Width: 20.87 in. (53.0 cm) Height: 1.62 in. (4.12 cm)</p>			
1	E8007NH	<p>Medrad Stellant D Dual Flow Pedestal Injector</p> <p>Medrad Stellant D Pedestal Mount Injection System with Dual Flow produces fewer image artifacts, match attenuation levels in both ventricles, visualize right coronary arteries and right ventricle. Warranty Code: E</p>	\$42,000.00	20.00%	\$33,600.00
1	E8505R	<p>LAP Dorado 3 Red Laser CARINAiso - Wall Mounted</p> <p>Dorado 3, Wall Mounted with RED laser and CARINAiso Software</p> <ul style="list-style-type: none"> • One overhead ceiling mounted moving laser to project the sagittal plane (X-axis) and one fixed laser for the transverse line (Y-axis) 	\$52,995.00	20.00%	\$42,396.00

Quotation Number: P6-C140936 V 14

Qty	Catalog No.	Description	List Price	Discount	Ext Sell Price
		<ul style="list-style-type: none">Two wall mounted lateral lasers each with a vertically movable laser to produce the horizontal (Za axis and Zb axis) and one fixed laser each for the transverse line (Y-axis)			
		Laser Specifications per Laser Rail:			
		<ul style="list-style-type: none">One Fixed Transverse Red Laser DiodeClass II Laser635nmOutput Power: Less than or equal to 1mwOne Moving Coronal Horizontal Red Laser DiodeClass II Laser635nmOutput Power: Less than or equal to 1mw			
		Moving System Specifications			
		<ul style="list-style-type: none">Dual Feedback Absolute Distance Linear Encoder SystemAuto CalibrationTotal Travel: 600mmMoving Speed: Less than or equal to 200mm/sManually Selectable: 0.2-180mm/sProjection Precision of the Traveling Unit with Laser: plus or minus 0.25mm			
		Physical Dimensions			
		<ul style="list-style-type: none">3 Identical Rails DIM: 1392x184x165mmWeight: 26kgMaterial: Aluminum			
		Electrical Specifications			
		<ul style="list-style-type: none">Power Supply: 100-240VAC, 50-60HzPower Consumption: 60VAFuses: 250VAC 2xT2ALData Interface: RS485			

Quotation Number: P6-C140936 V 14

Qty	Catalog No.	Description	List Price	Discount	Ext Sell Price
		Accessories:			
		<ul style="list-style-type: none">• Two RS485 15m Laser Control Cables• Three US power Cables• Wilke Laser Alignment Phantom with Leveling Plate• Installation Kit• Operators Manual			
		CARINAiso Computer Hardware and Software			
		<ul style="list-style-type: none">• All in One Touchscreen Medical Grade PC Computer System running Windows 7 64-Bit• Wall Mounted or Table Mounted• CARINAiso Software with Basic Isocenter Marking Functionality through LAP Proprietary File Format• Additional Position Marking Possible Depending on implementation of Interface by OEM.• No 3D Visualization• No Database Functionality• No Beam Data• Data Transfer via FTP or NFS• Ethernet Isolator• 75' RS485 Computer Data Cable• RS485 - RS232 Adapter• Medical Grade Power Supply			
		Installation and Training			
		<ul style="list-style-type: none">• Telephone and Email Pre Installation Support• Onsite Mechanical Install• Fine Alignment• Operator and Physics QA Training			

(Quoted prices do not reflect state and local taxes if applicable. Total Net Selling Price Includes Trade In allowance, if applicable.)



2003 S. Stewart Ave
Springfield, MO 65804
PH: (417) 890-2673
FAX: (417) 890-2692

CHANGE ORDER ESTIMATE/PRICING

June 26, 2014

Mr. Steve Meuschke
McCarthy Building Companies
300 E. 50th Street
Joplin, MO 64804

PROJECT #: S.3770.32
JOB NAME: Joplin Replacment Hospital
PCI JOB NUMBER: 4232

PCI PCO #: CT/PET Lead

Please see our costs below and attached breakdown associated with the labor and materials required to:	
Install lead on walls and floors of CT/PET 2514, as shown in the current documents; A10.023.7 & A10.026.7.	
	-
	-
	-
	-

PRICING:

LABOR	\$	11,395.00
MATERIALS	\$	54,243.00
EQUIPMENT	\$	350.00
SUBCONTRACTORS	\$	-
TOTAL OH & P	\$	5,460.00
UNIT COST ADJUSTMENTS	\$	-

TOTAL CHANGE ** \$ 71,448.00

SINCERELY,
Performance Contracting, Inc.

Chris Colson
Project Manager

This change order request is based on the current field conditions and usual cost elements such as labor, material and markup and does not include any amount for impacts such as but not limited to acceleration, interference, disruptions, rescheduling, change in sequence of work, cumulative impact or ripple effect, directly or indirectly associated with this change order request. We expressly reserve the right to resubmit our request for any items should we be faced with performing this or other work under any of these conditions.

HKS

ARCHITECT
HKS, P.C.
1919 MCKINNEY AVENUE
DALLAS, TX 75201-1703

REVISION NO.	DATE	DESCRIPTION

LOWER LEVEL, LEVEL 1
AND LEVEL 2 FINISH OUT
BP07
ISSUE FOR CONSTRUCTION

DWG JOB NUMBER
5045-153243-0013

JOPLIN REPLACEMENT HOSPITAL
JOPLIN, NEWTON COUNTY, MISSOURI

14981.000

JOPLIN REPLACEMENT HOSPITAL

DATE 12/04/12
SCALE

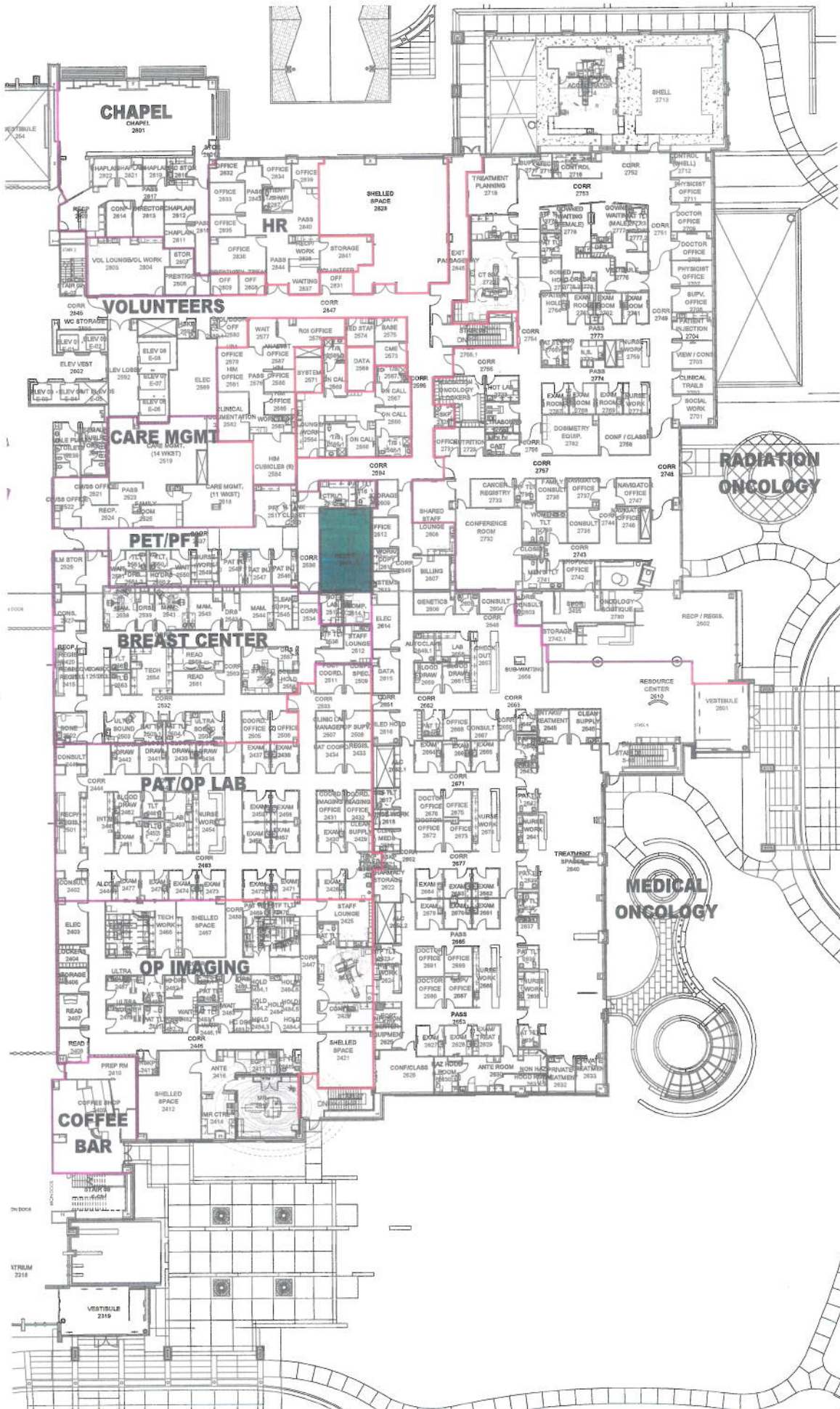
LEVEL 02 OVERALL FLOOR PLAN

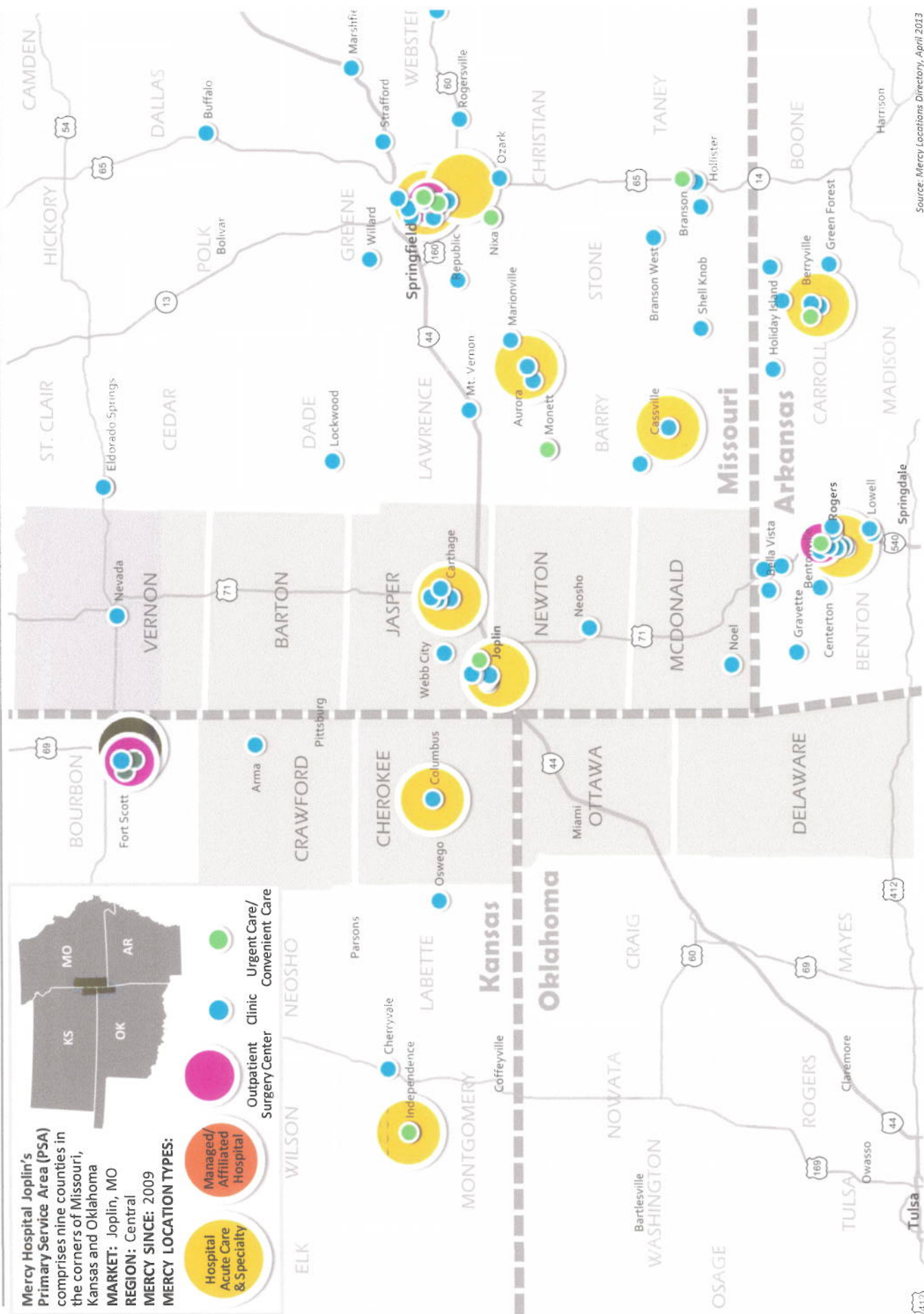
BUILDING NAME:

PROJECT NAME & PROJECT NUMBER

SHEET NAME:

Mercy

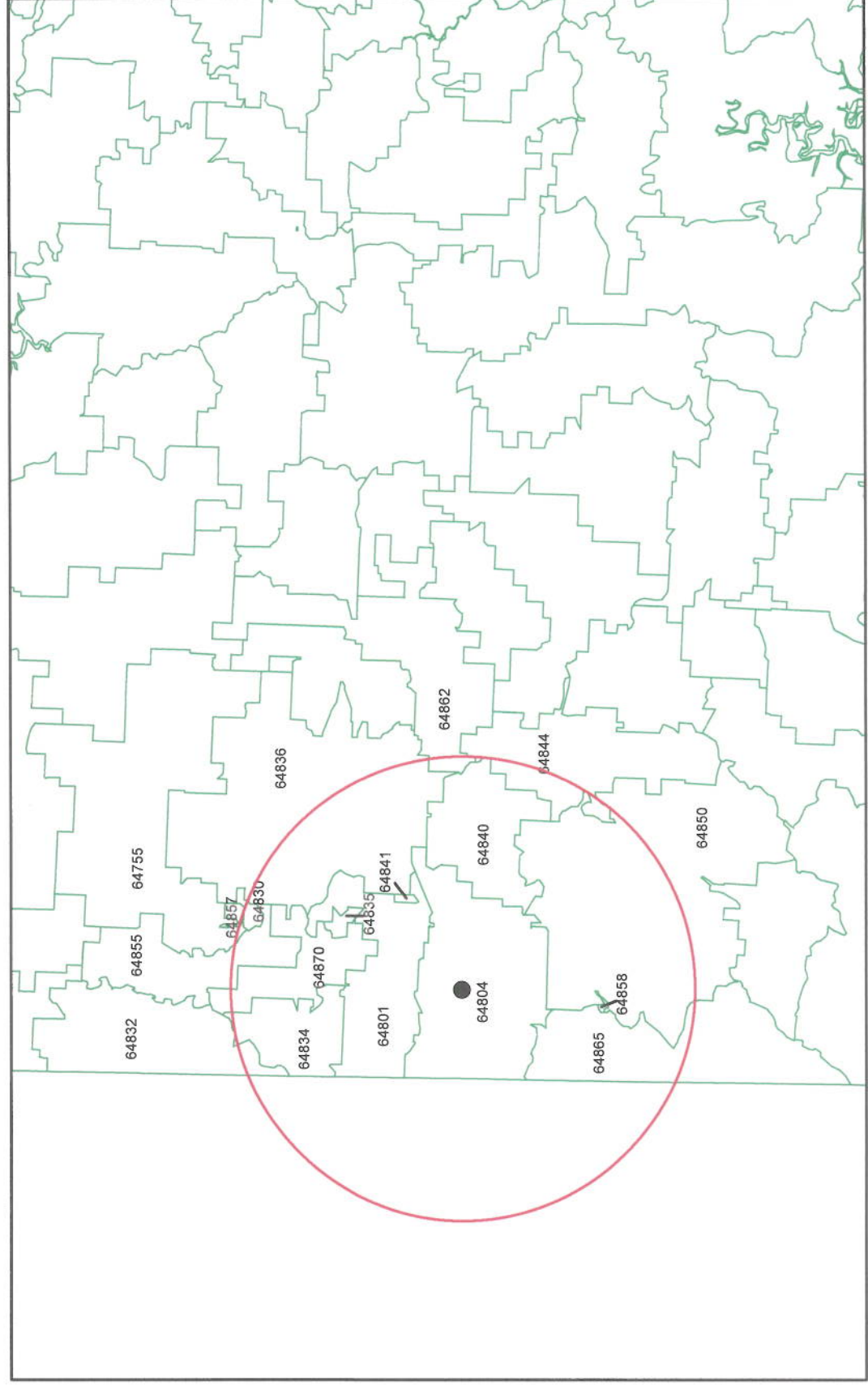


***Topline* MERCY PRIMARY SERVICE AREA & LOCATIONS**

Source: Mercy Locations Directory, April 2013

CON 15 Mile Radius

100 Mercy Way
Joplin, MO 64804



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	POPULATION				Project Number:			Project Address:		100 Mercy Way, Joplin, MO 64804					
2		Zip In Radius	Pop in Zip	City in Zip	City Pop	% of City in Zip	City Pop in ZIP	Total Cities' Pop in Zip	Zip Pop W/O Cities' Pop	% of Zip Area in Radius	Zip Pop in Radius W/O Cities' Pop	% City in Zip & Radius	City Pop in Zip & Radius	Total Cities' Pop in Zip & Radius	Zip Pop w City Pop in Zip & Radius
3	1	64755	3,096				0	0	3,096	0%	0		0	0	0
4							0						0		
5							0						0		
6	2	64801	39,272				0	0	39,272	100%	39,272		0	0	39,272
7							0						0		
8							0						0		
9	3	64804	41,034				0	0	41,034	100%	41,034		0	0	41,034
10							0						0		
11							0						0		
12	4	64830	885				0	0	885	100%	885		0	0	885
13							0						0		
14							0						0		
15	5	64832	828				0	0	828	5%	41		0	0	41
16							0						0		
17							0						0		
18	6	64834	9,543				0	0	9,543	100%	9,543		0	0	9,543
19							0						0		
20							0						0		
21	7	64835	1,835				0	0	1,835	100%	1,835		0	0	1,835
22							0						0		
23							0						0		
24	8	64836	27,023				0	0	27,023	100%	27,023		0	0	27,023
25							0						0		
26							0						0		
27	9	64840	2,806				0	0	2,806	100%	2,806		0	0	2,806
28							0						0		
29							0						0		
30	10	64841	428				0	0	428	100%	428		0	0	428
31							0						0		
32							0						0		
33	11	64844	5,152				0	0	5,152	50%	2,576		0	0	2,576
34							0						0		
35							0						0		
36	12	64850	23,489				0	0	23,489	70%	16,442		0	0	16,442
37							0						0		
38							0						0		
39	13	64855	2,168				0	0	2,168	20%	434		0	0	434
40							0						0		
41							0						0		
42	14	64857	399				0	0	399	50%	200		0	0	200
43							0						0		
44							0						0		
45	15	64858	160				0	0	160	100%	160		0	0	160
46							0						0		

[illegible]



August 20, 2014

Karla Houchins
Program Coordinator, Certificate of Need
Department of Health and Senior Services
3418 Knipp Drive, P.O. Box 570
Jefferson City, MO 65102

Dear Ms. Houchins:

Mercy Joplin has been a resource for cancer care in the southwest Missouri region for many years. We are currently in a rebuilding phase post the devastating Joplin tornado of May 2011. I am writing to support a CON application advanced by Mercy Hospital Joplin to acquire a fixed PET/CT scanner.

The new hospital is slated to open March 2015, and Mercy will offer a complete care continuum for cancer patients. PET/CT imaging is a vital imaging modality for cancer care and has become a standard for diagnosis and assessing treatment response. Unfortunately, this technology is available to a very limited degree with a mobile service currently providing this imaging modality at Mercy one day each week. The plan to include a fixed PET/CT in the new cancer center will improve access to this technology, ease scheduling and enrich care coordination. We anticipate rapid growth after opening the new cancer center, and would like to provide this modality without additional delay.

Thank you for this opportunity to express my support for the CON application and support for our goal of providing quality cancer care in our region. PET/CT is an integral part of that plan. Continued technical advancement is a key process to make certain cancer services keep pace with the needs in our region.

Sincerely,

David W Croy MD

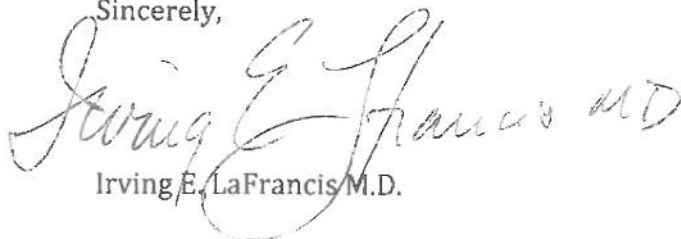


August 14, 2014

To Whom It May Concern,

I have been a practicing oncologist in Joplin Missouri for 21 years. Over that period of time, imaging technology has advanced substantially and the positron emission tomography scan is now essential in the delivery of modern oncologic care. This is further supported by the NCCN treatment guidelines which specify positron emission tomography scanning in numerous disease processes. Our past PET scanning needs have been provided by a mobile unit. This was continued in the post tornado era; however, given the increased oncology volumes that will invariably come with the opening of the new Mercy facility in Joplin, an integral unit would be most fitting and in keeping with the public's rightful expectation of the highest level of available oncologic care. It is on this basis that I, as a practicing oncologist, request approval for such a facility to be incorporated into our new hospital. Failure to approve incorporation of positron emission tomography scanning in our new facility risks limiting public access to the highest level of available care. Thank you in advance for your consideration of this request.

Sincerely,



Irving E. LaFrancis M.D.



August 20, 2014

Karla Houchins
Program Coordinator, Certificate of Need
Department of Health and Senior Services
3418 Knipp Drive, P.O. Box 570
Jefferson City, MO 65102

Dear Ms. Houchins,

I am writing in support of the CON application to acquire a new, fixed PET/CT by Mercy Hospital Joplin. Despite the setbacks we have encountered from the tornado tragedy in May 2011, we are committed to continue to provide quality and comprehensive care for the patients with cancer in our region.

PET/CT is considered the standard of care for diagnosis and treatment, and is an integral component of comprehensive cancer care. Although we are fortunate to still have the PET/CT capability to provide for our patients, currently, the access for this service is extremely limited as it is provided through mobile service at Mercy only one day per week.

With the opening of the new hospital facility and cancer center in March 2015, we anticipate a significant growth in the volume of patients with cancer that we will care for. A fixed PET/CT at Mercy Hospital Joplin will be necessary to improve patient access to this technology, ease scheduling, and enhance care coordination overall.

Thank you for your consideration and allowing me to express my support for the CON application.

Sincerely yours,

Danny Liu, M.D.



August 19, 2014

Karla Houchins
Program Coordinator, Certificate of Need
Department of Health and Senior Services
3418 Knipp Drive, P O Box 570
Jefferson City, MO 65102

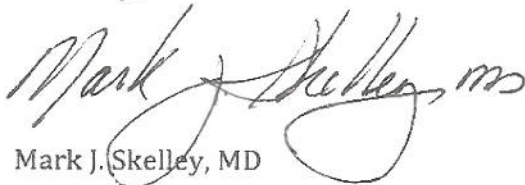
Dear Ms. Houchins:

As a medical oncologist I am anxiously awaiting our move this coming March to our state of the art cancer center facility on the campus of the new Mercy Hospital here in Joplin. I will be joined by three other physicians, all of whom will continue to practice top quality cancer medicine. To do so we rely on access to PET/CT scanning which has become a key tool both for diagnosis and for ongoing monitoring of our patients.

The key advantage of a cancer center for patient care is the convenience and comprehensive setting for all of the required services. By having an on-site PET/CT unit we can expedite this study and minimize any delay in both reviewing the results with the patient and implementing any necessary changes in their treatment. Waiting for an opportunity to either have the study or to know the results creates a tremendous amount of anxiety and stress that we are trying hard to minimize.

We are fighting a battle with this disease and trying to position both ourselves and our patients in a setting that will maximize our chances to grab the advantage. By having this service readily available we give the patient and ourselves another critical weapon. Please consider this application as a way for us to augment our care for these patients as well as their comfort. Thank you for your time and consideration of this request.

Sincerely,



Mark J. Skelley, MD



August 12, 2014

Karla Houchins
Program Coordinator, Certificate of Need
Department of Health and Senior Services
3418 Knipp Drive, P.O. Box 570
Jefferson City, MO 65102

Dear Ms. Houchins:

I support the Missouri state Certificate of Need (CON) application to acquire a fixed PET/CT by Mercy Hospital Joplin in their new I44 hospital. As you may know we use a mobile PET unit weekly now and this would be a new unit, allowing for more flexible patient scheduling and improved and more timely patient care. The only other fixed unit is in another hospital in Joplin and they have communicated to me through several channels that their radiology department is overloaded and they would like to have us undertake more of all types of diagnostic radiology patient studies.

PET/CT exams are vital for patients with cancer, and for those who are faced with the diagnosis of *possible* cancer.

When we open the new hospital facility in March 2015, Mercy will again be able to offer complete care for cancer patients, with radiation therapy as well. The plan to include a fixed PET/CT in the new cancer center will improve access to this technology, ease scheduling and enrich care coordination overall. We anticipate rapid growth in the volume of patients Mercy will see in the new cancer center and this will be good for the patients in Joplin and the surrounding communities in southwest Missouri.

Mercy has made a very strong commitment to maintain and expand its services to Missourians in southwest Missouri since the tornado in 2011. This application for the PET/CT CON approval is important to us and to those we serve. If I can help further please do not hesitate to give me a call. My contact information is below.

Respectfully,

Stephen E. Slawson, M.D.
Medical Director, Mercy Radiology Department
2817 St. John's Boulevard
Joplin, Missouri 64804
Stephen.Slawson@Mercy.net
Office: 417 625-2063



Mercy Clinic
3020 St. John's Blvd.
Suite F1
Joplin, MO 64804
phone 417-781-4404
fax 417-781-5845
after hours 417-781-2727
mercy.net

August 13, 2014

Kenneth Watts, MD, FACS

Karla Houchins
Program Coordinator, Certificate of Need
Department of Health and Senior Services
3418 Knipp Drive, P.O. Box 570
Jefferson City, MO 65102

Dear Ms. Houchins:

I am writing in support of the CON application to acquire a new, fixed PET/CT by Mercy Hospital Joplin. PET/CT has become the standard of care for diagnosis and treatment of patients with cancer. Unfortunately, this technology is available to my patients to a very limited degree at this time with the mobile service currently at Mercy only one day each week.

With the opening of the new hospital facility in March 2015, Mercy will again be able to offer a complete care continuum for cancer patients, including radiation therapy which we have not provided since May 2011. The plan to include a fixed PET/CT in the new cancer center will improve access to this technology, ease scheduling and enrich care coordination overall. We anticipate rapid growth in the volume of patients Mercy will see in the new cancer center, which, in my view, justifies approval.

Thank you for this opportunity to express my support for the CON application. Mercy has made a very strong commitment to maintain and expand its services to people in the region since the tornado struck in 2011. Making sure PET/CT is readily available to our patients is important to ensure cancer services keep pace with the acute needs in our region.

Sincerely,

Kenneth Watts, M.D.

Divider III

Service Specific Criteria & Standards

DIVIDER III – Community Need Criteria and Standards

1. For new units address the need formula for the proposed geographic service area.

The primary and secondary service area for Mercy Hospital Joplin has a current population of 460,178. The CON criterion for new PET/CT is 1 unit for a population of 224,000 persons. The formula indicates a need for 2.1 PET/CT units in the service area.

The applicant understands Freeman Health System operates a fixed PET/CT in Joplin, although the CON Inventory of Major Medical Equipment (dated June 2014) reports the Freeman unit as a part-time, mobile unit. Assuming the applicant's understanding is correct, there is a need for an additional PET/CT in the service area.

Mercy is requesting approval of a fixed PET/CT. As described earlier in this application, the new Mercy Hospital Joplin will have a dedicated cancer center designed to provide comprehensive, accessible and convenient oncology services for patients and families. A part time, mobile service will not provide appropriate access for patients and physicians who will rely on this technology.

2. For new units, address the minimum annual utilization standard for the proposed geographic service area.

As mentioned above, the applicant understands Freeman Health System operates a fixed PET/CT unit that provides more than 1,000 procedures each year.

In Fiscal Year 2011, Mercy provided 358 procedures with a part-time, mobile PET/CT. Adjusted for the tornado that struck in mid-May that year, Mercy would have provided over 400 procedures. We anticipate annual volumes will exceed a rate of 1,000 per year by the end of third full fiscal year (year ending June 30, 2018) following opening of the new cancer center at Mercy Hospital Joplin.

3. For any new unit where specific need and utilization standards are not listed, provide the methodology for determining need.

Need criteria for the new PET/CT are addressed above.

- 4. For additional units, document compliance with the optimal utilization standard, and if not achieved, provide documentation to justify the additional unit.**

Not applicable.

- 5. For evolving technology address the following:**

- **Medical effects as described and documented in published scientific literature;**
- **The degree to which the objectives of the technology have been met in practice;**
- **Any side effects, contraindications or environmental exposures;**
- **The relationships, if any, to existing preventive, diagnostic, therapeutic or management technologies and the effects on the existing technologies;**
- **Food and Drug Administration approval;**
- **The need methodology used by this proposal in order to assess efficiency and cost impact of the proposal; and**
- **The degree of partnership, if any, with other institutions for joint use and financing.**

Not applicable.

Divider IV

Financial Feasibility

DIVIDER IV – Financial Feasibility

- 1. Document that sufficient financing is available by providing a letter from a financial institution or an auditor's statement indicating that sufficient funds are available.**

Ernst & Young conducted the external audit for Mercy Health, the applicant's parent organization, for fiscal year ending June 30, 2013. The consolidated balance sheet (included in Divider IV – Attachments) verifies the ability of the applicant to fund this project.

- 2. Provide Service-Specific Revenues and Expenses (Form MO 580-1865) projected through three years beyond project completion.**

The Service-Specific Revenues and Expenses Form for the projected period is included in Divider IV – Attachments.

- 3. Document how patient charges were derived.**

Charges for PET/CT procedures are already established, as the applicant currently offers these services. Changes are not anticipated to the charge structure with the addition of this new unit other than normal inflationary increases in future years.

- 4. Document responsiveness to the needs of the medically indigent.**

Mercy is a Catholic, not-for-profit organization. Collection policies are sensitive to those patients who do not have the ability to meet full financial obligations. Mercy provides financial assistance to patients based on need as determined by the Federal Poverty Guidelines. Patients who qualify for financial assistance will not be required to pay more than amounts normally billed to individuals who have insurance. The amount billed is a discounted percentage for those up to 400% of federal poverty guidelines.

In FY2013, Mercy Hospital Joplin provided \$19 million in community benefits, which includes \$7.1 million in traditional charity care.

Divider IV

Attachments Financial Feasibility

Mercy Health

Consolidated Balance Sheets (In Thousands)

	June 30	
	2013	2012
Assets		
Current assets:		
Cash and cash equivalents	\$ 337,406	\$ 337,324
Accounts receivable, net of allowance for uncollectible receivables of \$203,757 in 2013 and \$171,015 in 2012	609,360	506,351
Inventories	96,489	78,717
Short-term investments	27,465	26,206
Other current assets	279,606	282,204
Total current assets	1,350,326	1,230,802
Investments	1,482,953	1,338,053
Property and equipment, net	2,549,270	2,281,591
Other assets	464,483	333,139
Total assets	<u>\$ 5,847,032</u>	<u>\$ 5,183,585</u>
Liabilities and net assets		
Current liabilities:		
Current maturities of long-term obligations	\$ 20,366	\$ 21,218
Accounts payable	153,292	136,273
Accrued payroll and related liabilities	346,645	318,411
Accrued liabilities and other	274,696	338,290
Total current liabilities	794,999	814,192
Insurance reserves and other liabilities	393,189	400,804
Pension liabilities	313,121	362,324
Long-term obligations, less current maturities	1,070,911	810,204
Total liabilities	2,572,220	2,387,524
Net assets:		
Unrestricted	3,196,931	2,724,806
Restricted	77,881	71,255
Total net assets	3,274,812	2,796,061
Total liabilities and net assets	<u>\$ 5,847,032</u>	<u>\$ 5,183,585</u>

See accompanying notes.



Certificate of Need Program

SERVICE-SPECIFIC REVENUES AND EXPENSES

Historical Financial Data for Latest Three Years plus Projections Through Three Years Beyond Project Completion

(Use an individual form for each affected service with a sufficient number of copies of this form to cover entire period, and fill in the years in the appropriate blanks.)

	Year		
	2015	2016	2017
Amount of Utilization:*	500	650	813
Revenue:			
Average Charge**	\$3,435	\$3,435	\$3,435
Gross Revenue	\$1,717,500	\$2,232,750	\$2,792,655
Revenue Deductions	1,409,222	1,798,500	2,249,843
Operating Revenue	308,278	434,250	542,812
Other Revenue	0	0	0
TOTAL REVENUE	\$308,278	\$434,250	\$542,812
Expenses:			
Direct Expense			
Salaries	6,502	86,036	88,186
Fees	117,207	0	0
Supplies	105,800	97,500	121,875
Other	2,500	2,500	2,500
TOTAL DIRECT	\$232,009	\$186,036	\$212,561
Indirect Expense			
Depreciation	178,333	267,500	267,500
Interest***	0	0	0
Overhead****	0	0	0
TOTAL INDIRECT	\$178,333	\$267,500	\$267,500
TOTAL EXPENSE	\$410,342	\$453,536	\$480,061
NET INCOME (LOSS):	-\$102,064	-\$19,286	\$62,751

* Utilization will be measured in "patient days" for licensed beds, "procedures" for equipment, or other appropriate units of measure specific to the service affected.

** Indicate how the average charge/procedure was calculated.

*** Only on long term debt, not construction.

**** Indicate how overhead was calculated.



Certificate of Need Program

SERVICE-SPECIFIC REVENUES AND EXPENSES

Historical Financial Data for Latest Three Years plus Projections Through Three Years Beyond Project Completion

(Use an individual form for each affected service with a sufficient number of copies of this form to cover entire period, and fill in the years in the appropriate blanks.)

	2018	Year	
Amount of Utilization:*	1,016	0	0
Revenue:			
Average Charge**	\$3,435	\$0	\$0
Gross Revenue	\$3,489,960	\$0	\$0
Revenue Deductions	2,811,444	0	0
Operating Revenue	678,516	0	0
Other Revenue	0	0	0
TOTAL REVENUE	\$678,516	\$0	\$0
Expenses:			
Direct Expense			
Salaries	90,391	0	0
Fees	0	0	0
Supplies	152,344	0	0
Other	2,500	0	0
TOTAL DIRECT	\$245,235	\$0	\$0
Indirect Expense			
Depreciation	267,500	0	0
Interest***	0	0	0
Overhead****	0	0	0
TOTAL INDIRECT	\$267,500	\$0	\$0
TOTAL EXPENSE	\$512,735	\$0	\$0
NET INCOME (LOSS):	\$165,781	\$0	\$0

* Utilization will be measured in "patient days" for licensed beds, "procedures" for equipment, or other appropriate units of measure specific to the service affected.

** Indicate how the average charge/procedure was calculated.

*** Only on long term debt, not construction.

**** Indicate how overhead was calculated.